GOVERNMENT OF INDIA
SPACE
LOK SABHA

UNSTARRED QUESTION NO:3870
ANSWERED ON:12.08.2015
High Thrust Cryogenic Rocket
Ahlawat Smt. Santosh;Arunmozhithevan Shri A.;Boianapalli Shri Vinod Kumar;Chaudhary Shri P.P.;Chavan Shri Ashok Shankarrao;Gaikwad Dr. Sunil Baliram;Gupta Shri Sudheer;Joshi Shri Chandra Prakash;Kirtikar Shri Gajanan Chandrakant;Saraswati Shri Sumedhanand;Singh Shri Kunwar Haribansh;Udhayakumar Shri M.

Will the Minister of SPACE be pleased to state:

(a) whether ISRO has successfully tested the high thrust cryogenic rocket engine recently;

(b) if so, the details thereof along with the expenditure incurred on its development;

(c) whether it is also a fact that this successful test of indigenously developed high thrust cryogenic engine will help in launching heaviest satellite GSLV Mk-III;

(d) if so, the details thereof and the time by which ISRO is likely to launch GSLV Mk-III satellite;

(e) whether the above capability would enhance country"s capability to be a competitive player in the multi-million dollar commercial launch market; and

(f) if so, the details thereof?

Answer

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PG & PENSIONS AND IN THE PRIME MINISTER'S OFFICE (DR. JITENDRA SINGH):

(a) Yes, Madam.

(b) The High thrust cryogenic rocket engine has successfully undergone the endurance hot test for duration of 800 seconds on July 16, 2015 at ISRO Propulsion Complex, Mahendragiri. Further tests are planned under High Altitude conditions and stage configuration, prior to the realization of flight stage. The expenditure incurred on the development of cryogenic engine and stage is ` 593.45 Crores.

(c) Yes, Madam.

(d) The successful development and qualification of indigenous high thrust cryogenic engine and stage will enable the capability to launch up to 4 ton class of satellites to Geosynchronous Transfer Orbit (GTO). The first developmental flight of GSLV MkIII is targeted by the end of 2016.

(e)&(f) The GSLV MKIII launch vehicle is currently under development. The possibility of clinching commercial contracts to launch up to 4 ton class of communication satellites would emerge after its operationalisation.

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